



Approval #

970005-U (Replaces 910065-U)

Safety & Buildings Division
201 East Washington Avenue
P.O. Box 7969
Madison, WI 53707

Wisconsin Material Approval

Material

Secondary Containment Aboveground Tank System

Manufacturer

International Production Specialists, Inc. (I.P.S.)
35006 Washington Avenue
P.O. Box 117
Honey Creek, WI 53138

SCOPE OF EVALUATION

The I.P.S. secondary containment aboveground tank system for flammable liquids, with or without integrally welded supports, was evaluated in accordance with **ss. ILHR 10.345 (1) and 10.415** of the Wisconsin Administrative Flammable and Combustible Liquids Code.

DESCRIPTION AND USE

The tank system includes the following components:

A UL 142 horizontal storage tank no less than 1/4-inch thick enclosed in a secondary containment tank no less than 3/16-inch thick supported on saddles. Tanks are available with a capacity range of 280-10,000 gallons.

A 2- or 3-inch top fill pipe with lockable spill basin cover, overfill protection valve, check valve and 25-gallon spill containment basin for bottom filling or a 7-gallon spill containment basin for top filling. The tank may also be filled with a direct hook-up.

A 1.5- or 2-inch pump feed line with an electrically operated explosion proof solenoid valve at the tank top and an emergency shut-off valve with shear section and fusible link or a pressure-regulator valve with shear section mounted under a remote dispenser. If the pump is mounted directly to the top of the tank, the solenoid valve, emergency shutoff and pressure regulator are not needed. The hose would then require a break-away to prevent siphoning.

An emergency pressure relief vent and working vent.

A protected external site gauge or float gauge.

A BC fire extinguisher.

An anti-static wire reel.

A pump support deck with leak containment underneath.

A pump with hose and nozzle. Hose reel and filter are optional.

TESTS AND RESULTS

The inner tank and secondary containment have been tested and listed by UL in accordance with UL Standard 142. The support design has also been approved by UL.

LIMITATIONS OF APPROVAL

The double wall tanks are approved for compliance with the secondary containment requirements of **ss. ILHR 10.345 (1) and 10.415 (7)(b)** and may be used without a dike, except in the case of public-access waste oil collection. Tanks for public-access waste oil collection shall be provided with a dike in accordance with **s. ILHR 10.33**.

Tanks up to 10,000 gallons may be used for vehicle fueling in accordance with **s. ILHR 10.415**.

All tanks, regardless of capacity, shall have a minimum total wall thickness (heads and shells) of 7/16 inch. This is typically achieved with a combination of 7 gage and 1/4-inch thickness. This is deemed sufficient to meet the projectile protection requirement of **s. ILHR 10.451 (7)(b)**.

Double wall tanks with lesser wall thicknesses may be used inside a building without a dike subject to the requirements of **s. ILHR 10.335 (2) and NFPA 31**, if applicable.

The interstitial space shall be monitored for leaks. The monitor must be capable of detecting a leak from anywhere in the inner tank.

Compartmentalized tanks shall be constructed for a double bulkhead in accordance with UL Standard 142. This interstitial space between compartments shall be monitored for leaks.

A spill container shall be provided at the fill opening in accordance with **s. ILHR 10.415 (12)(a)**.

Separate vehicle collision protection shall be provided by a barrier that meets the design requirements specified in **s. ILHR 10.415 (8)(a)**.

No attachments shall be made to the tank which violate or void the UL Listing.

The tank shall be installed to allow full visual inspection of the secondary containment system.

The installer shall be certified by the department in accordance with **ch. Comm 5**.

This approval will be valid through December 31, 2002, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Approval Date: _____ By: _____

Duane Hubeler
Mechanical Code Consultant
Office of Division Codes and Application